

INDEX TO VOLUME 25

1995	Volume 25, Number 1 Jan	nuary
EDITORIAL		iii
COMMUNIC	CATED PAPERS	
S. Kumar	and C.V.S. Kameswara Rao: Sulfate Attack on Concrete in Simulated Cast-in-Situ and	
Precast	Situations	1
S. Tsivilis	and G. Parissakis: A Mathematical Model for the Prediction of Cement Strength	9
	R.L. Day: Acceleration of the Reactivity of Fly Ash by Chemical Activation	15
	ot and F.P. Glasser: Investigation of the CaO-Al ₂ O ₃ -SiO ₂ -H ₂ O System at 25°C by	13
	odynamic Calculations	22
	Gu, P. Xie and J.J. Beaudoin: Effect of Chemical Admixtures on the Expansion of	
	age-Compensating Cement Containing a Pre-Hydrated High Alumina Cement-Based	
	ive Additive	29
	ez-Ramírez, F. Puertas and M.T. Blanco Varela: Carbonation Process and Properties	27
	w Lime Mortar with Added Sepiolite	39
	ii: Mechanism of Expansion of Concrete Due to the Presence of Dead-Burnt CaO and MgO	51
	and C.V.S. Kameswara Rao: Strength Loss in Concrete Due to Varying Sulfate Exposures	57
	Gu, P. Xie and J.J. Beaudoin: A Kinetic Study of Delayed Ettringite Formation in	31
	ed Portland Cement Paste	63
	and V. Kaucic: The Study of Autoclaved Cellulose Fiber-Reinforced Cement Composites	71
	and G. Parissakis: Investigation of the Effect of Zn Oxide on the Formation of Portland	/1
	t Clinker	79
	S.K. Agarwal, S. Agarwal and S.K. Handoo: Kinetics and Diffusion Studies in BaAl ₂ O ₄	13
	ion	86
REFEREED	DADEDC	
		04
1. Sugama	a and N.R. Carciello: Sodium Phosphate-Derived Calcium Phosphate Cements	91
	or: Pozzolanic Properties of Flash-Calcined Kaolinite: A Comparative Study with Soak-	400
	d Products	102
	an, J. Beretka, L. Santoro and G.L. Valenti: Long-Term Behaviour of Hydraulic	
	s Based on Calcium Sulfoaluminate and Calcium Sulfosilicate	
	nd J. Sugita: Composite Mechanism of Polymer Modified Cement	
	ung and T. Pheeraphan: Very High Early Strength of Microwave Cured Concrete	
	w, J.M. Bukowski and J.F. Young: The Fractal Arrangement of Hydrated Cement Paste	
	sen: Thermodynamic Limitation of Self-Desiccation	157
	ov and S. Ahmad: Effect of Transition Zone on the Elastic Behavior of Cement-Based sites	165
E D 7hou	, F.D. Lydon and B.I.G. Barr: Effect of Coarse Aggregate on Elastic Modulus and	103
Compa	essive Strength of High Performance Concrete	177
D Riegovi	ic, V. Krstic, D. Mikulic and V. Ukrainczyk: C-D-c-t Diagrams for Practical Design	1//
of Con-	crete Durability Parameters	197
M D Jone	s, R.K. Dhir and J.P. Gill: Concrete Surface Treatment: Effect of Exposure Temperature	10/
M.K. Jone	ride Diffusion Resistance	107
	ri, V. Sirivivatnanon and W. Gross: Effect of Different Supplementary Cementitious	17/
	als on Mechanical Properties of High Performance Concrete	200

DISCUSSIONS		
P. Gu, Y. Fu	, P. Xie and J.J. Beaudoin	
M.J. Ridge	••••••	
R.J. Hand		225
NEWS ITEMS		227
NEW BOOKS		
1995	Volume 25, Number 2	February
COMMUNICA	ATED PAPERS	
U.P. Inozem	ntsev: Cement Paste and Concrete Hardening Under Strain: I. Cement Paste Research	231
	S-Curve Effect in Oilwell Cement Compressive Strength Development Under	
	ermal Conditions	240
	shida and T. Mitsuda: Influence of Quartz Particle Size on the Chemical and Mechanical	242
	es of Autoclaved Aerated Concrete. (I) Tobermorite Formation	243
	chanical Properties of Autoclaved Aerated Concrete. (II) Fracture Toughness, Strength	
	ropore	249
	-Döhl, and F.S. Rostásy: Crystallization and Hydration Pressure or Formation Pressure	
of Solid	Phases · · · · · · · · · · · · · · · · · ·	255
J.A. Gonzál	lez, C. Andrade, C. Alonso and S. Feliu: Comparison of Rates of General Corrosion	
	ximum Pitting Penetration on Concrete Embedded Steel Reinforcement	
	nd J. Pera: Pozzolanic Activity of Metakaolin Under Microwave Treatment	265
	ridi, Z.U. Chaudhary, Y. Ohama, K. Demura and M.Z. Iqbal: Morphological	
	erization of Low Sulphoaluminate-Type (AFm) Crystals, Hollow Tubules and Hollow	
	in Polymer-Modified Mortars	271
	te	276
	and S. Miyazawa: Influence of Cement and Admixture on Autogenous Shrinkage of	2/6
	Paste · · · · · · · · · · · · · · · · · · ·	291
	S. Miyazawa and T. Kasai: Chemical Shrinkage and Autogenous Shrinkage of	201
	ng Cement Paste · · · · · · · · · · · · · · · · · · ·	288
	agne and M. Pigeon: The Influence of Polypropylene Fibers and Aggregate Grading	
	Properties of Dry-Mix Shotcrete · · · · · · · · · · · · · · · · · ·	293
S. Chatterj	ii: On the Applicability of Fick's Second Law to Chloride Ion Migration Through	
	1 Cement Concrete	
	: The Properties of Rubberized Concretes	304
I. Plecas, A	A. Peric, J. Drljaca, S. Glodic and A. Kostadinovic: Effect of Curing Time on the	
	n of ⁶⁰ CO and ¹³⁷ Cs Leached from Cement Matrix	311
from Sp	A. Peric, S. Glodic and A. Kostadinovic: Comparative Leaching Studies of ⁶⁰ Co pent Radioactive Ion-Exchange Resin Incorporated in Cement	314
REFEREED I		
	eugel: Numerical Simulation of Hydration and Microstructural Development in Hardening	
	-Based Materials. (I) Theory	310
M. Singh a	and M. Garg: Activation of Gypsum Anhydrite-Slag Mixtures	332
	o and F.P. Glasser: Fluxing Reactions of Sulfates and Carbonates in Cement Clinkering.	332
II. The S	System CaCO ₃ -K ₂ CO ₃	339
M.G. Alexa	ander and S. Mindess: Use of Chevron-Notched Cylindrical Specimens for Paste/Rock	
	e Experiments	345
H. Uchikav	wa, D. Sawaki and S. Hanehara: Influence of Kind and Added Timing of Organic	
Admixt	ture on the Composition, Structure and Property of Fresh Cement Paste	353
A Duraka	wise Coment Dectar of Law Water to Calid Datio: An Investigation of the Decesity	

	Influence of a Superplasticizer and Silica Fume	365
	ías: Corrosion of Reinforcing Steel in Mortar of Cement with CaF ₂	
	Influence of Silicoferrochromium Fume on Concrete Properties · · ·	387
	: Characterization and Pozzolanic Properties of Silica Fume Stored	
	d K.Y. Lam: Statistics and Size Effect in Cementitious Materials ••	408
W. Ma, C. Liu, P.W. Brown	and S. Komarneni: Pore Structures of Fly Ashes Activated by	
Ca(OH) ₂ and CaSO ₄ ·2H ₂ (0	417
J. Bensted, G.J. Audley and	P.N. Aukett: Studies of Early Hydration with Class G Oilwell Ceme	ent
Using Heatflow Conduction	on Calorimetry	426
M. Frías, M.I.S. Rojás: Dete	termination and Quantification of Total Chromium and Water Soluble	
	ommercial Cements	
	and M. Tang: Mechanism of Expansion in Hardened Cement Pastes	
	e	440
	Mora, M.V. Borrachero, R. Tercero and C. Pinillos: Early-	
Strength Development of l	Portland Cement Mortars Containing Air Classified Fly Ashes	449
NEWS ITEMS		457
1005	Volume 28 Number 2	
1995	Volume 25, Number 3	April
COMMUNICATED PAPER	D.C.	
	_	
	harjee and A.K. Shukla: Pond Ash - A Potential Reactive Ra il Process of Cement Manufacture by Vertical Shaft Kiln (VSK) Techn	
	g: Effect of Polymer Addition on the Thermal Stability and Therm	
	rrelation Between Reaction and Expansion of Alkali-Carbonate Rea	
	pulos and G. Parissakis: Effect of Acetic and Tartaric Acid U	
the Thermal Decomposition	on of CaCO ₃ ····································	477
	d A.B. Poole: The Microstructure of Concrete Cured at Elevate	
	The Microsoftelia of Concrete Cured at Dievale	
	. Chung: Improving the Bonding Between Old and New Concre	
	the New Concrete	
	of the Adherence and the Fracture Behaviour of Polymer Cement Cor	
	of Portland Cement Mortars with a Specially Designed Polyacrylic l	
L.M. Saija. Waterproofing	of Fortiand Cement Mortals with a Specialty Designed Forgactyne	Latex ····· 503
REFEREED PAPERS		
	cka: Strength and Durability of Polypropylene Fibre Reinforced	Groute 511
	Simulation of Hydration and Microstructural Development in Harde	
	. (II) Applications	
	yyali: Free and Water Soluble Chloride in Concrete	
	d F.D. Lydon: Fracture Properties of High Strength Concrete v	
	tent and Aggregates	
N Patta: Studies on Portlan	nd Pozzolana Cements Containing Endod, a Soap Berry Plant	
	vener: Hydration Products of Alkali Activated Slag Cement	
	a and S.G. Molina: Kinetics of the Thermal Decomposition of	
C.A.S in Air		572
	cantlebury and S.B. Lyon: The Binding of Chloride Ions by	
Sulphate Resistant Portlan	nd Cement	
	rwe: General Hydration Model for Portland Cement and Blast Fur	
Slag Cement	rwe: General rhydration model for Portland Centent and Blast Fur	
D Darwin M.N. Abov 70	eid and K.W. Ketcham: Automated Crack Identification for Co	ement
	ects of Cement Mortar of Calcium Magnesium Acetate as a Deicing	

Y. Cao and R.J. Detw	viler: Backscattered Electron Imaging of Cement Pastes Cured at Elevated	627
S.M. Clark and P. Ba	arnes: A Comparison of Laboratory Synchrotron and Neutron Diffraction	
for the Real Time S	tudy of Cement Hydration	639
M.J. Shannag and A	. Yeginobali: Properties of Pastes, Mortars and Concretes Containing	
J.K. Solem-Tishmae and D.J. Hassett:	ck, G.J. McCarthy, B. Docktor, K.E. Eylands, J.S. Thompson High-Calcium Coal Combustion By-Products: Engineering Properties,	647
	n, and Potential Application in Solidification and Stabilization of Selenium and	
Boron		658
Physical Effects of	Palta, T.R. Hess, R.K. Vempati and D.L. Cocke: Chemical and Sodium Lignosulfonate Superplasticizer on the Hydration of Portland Cement	
and Solidification/S	tabilization Consequences	6/1
NEWS ITEMS		683
1995	Volume 25, Number 4	May
COMMUNICATED PA	PEDC	
C. Bojadjieva and I.	Glavchev: Investigation of the Influence of Some Plasticizers of Gypsum-	685
X. Fu and D.D.L. Ch	ung: Carbon Fiber Reinforced Mortar as an Electrical Contact Material for	689
D. Tang and LO. Ni	ilsson: A New Approach to the Determination of Pore Distribution by ides into Concrete	695
G. Markeset and A. I	Hillerborg: Softening of Concrete in Compression - Localization and Size	702
	naga, Y. Watanabe and E. Sakai: Production and Properties of High	102
Strength Concrete	es Containing Various Mineral Admixtures	709
	Concretes Containing Various Mineral Admixtures	715
V. Kasselouri and Ch	n. Ftikos: The Effect of V ₂ O ₅ on the C ₃ S and C ₃ A Formation	721
REFEREED PAPERS		
	ez, A. Alamán and C. Alonso: Mathematical Modelling of Electrochemical	
Chloride Extraction	on from Concrete	727
M. Singh and M. Gar	got and J.P. Ollivier: Modelling of the Transition Zone Porosityrg: Phosphogypsum-Fly Ash Cementitious Binder - Its Hydration and	741
Strength Develop	ment	752
L. Zheng and D. Win	ii and M. Kawamura: Sulfate Resistance of High Fly Ash Content Concrete islow: Sub-Distributions of Pore Size: A New Approach to Correlate Pore	759
S.P. Jiang, J.C. Mutin	rmeability n and A. Nonat: Studies on Mechanism and Physico-Chemical Parameters at the	769
P. Halamickova, R.J.	nent Setting. I. The Fundamental Processes Involved During the Cement Setting Detwiler, D.P. Bentz and E.J. Garboczi: Water Permeability and Chloride Ion	779
	and Cement Mortars: Relationship to Sand Content and Critical Pore Diameter nori: Chloride Permeability of Concrete Under Static and Repeated	790
	dingding	803
	nd D. Knöfel: Frost Resistance of Cement Mortars with Different Lime Contents	809
V.T. Ngala, C.L. Pag	e, L.J. Parrott and S.W. Yu: Diffusion in Cementitious Materials: igations of Chloride and Oxygen Diffusion in Well-Cured OPC and OPC/30%	
	***************************************	819
J. Elsen, N. Lens, T. A. Cement Paste and	Aarre, D. Quenard and V. Smolej: Determination of the W/C Ratio of Hardened Concrete Samples of Thin Sections Using Automated Image Analysis Techniques	827
I. Maki, K. Fukuda,	T. Imura, H. Yoshida and S. Ito: Formation of Belite Clusters from Quartz	

Grains in Portland Cement Clinker	835
R. Goguel: Alkali Release by Volcanic Aggregates in Concrete	
I. Odler and Y. Chen: Effect of Cement Composition on the Expansion of Heat-Cured Cement Pastes	
I. Maki, K. Fukuda, E. Oba, H. Yoshida, M. Mitsumatsu and S. Ito: Anisotropic Light Absorption	
of the Calcium Aluminoferrite Phase in Portland Cement Clinker	863
S. Giménez-Molina and M.T. Blanco-Varela: Solid State Phases Relationship in the CaO-SiO2-	
Al ₂ O ₃ -CaF ₂ -CaSO ₄ System	870
N.B. Singh, K.N. Bhattacharjee and A.K. Shukla: Effect of Alkali Bypass Dust on the Hydration of	
Granulated Blast Furnace Slag Blended Cement	883
C. Arya and Y. Xu: Effect of Cement Type on Chloride Binding and Corrosion of Steel in Concrete	893
C.D. Lawrence: Mortar Expansions Due to Delayed Ettringite Formation. Effects of Curing Period	
and Temperature	903
NEWS ITEMS	915
OBITUARY - Professor Peter L. Pratt	918
1995 Volume 25, Number 5	July
	0-1,
COMMUNICATED PAPERS	
I. Odler and Y. Chen: Investigations on the Aging of Hydrated Tricalcium Silicate and Portland	
Cement Pastes	
P.J. Tumidajski and I. Turc: A Rapid Test for Sulfate Ingress into Concrete	
S. Chatterji: Concrete Durability and CaO/SiO ₂ Mole Ratio of CSH	. 929
A. Amoura, J. Ambroise and J. Pera: Modelisation du Comportement des Mortiers de	022
Rembourrage a la Filtration	. 933
C. Ostrowski: Study of the Crystal Structure of α-CaSO ₄ ·0.5H ₂ O	
S. Tsivilis, G. Kakali, K. Haldeou and G. Parissakis: A Mathematical Model for the	. 943
Control of Cement Setting Using Calcium Chloride as Accelerator	. 948
V. Kasselouri, G. Dimopoulos and G. Parissakis: Decomposition of CaCO3 in the	
Presence of Organic Acids	. 955
REFEREED PAPERS	
M. Collepardi, S. Monosi and P. Piccioli: The Influence of Pozzolanic Materials on the	
Mechanical Stability of Aluminous Cement	. 961
S.F. Ahmad, S.H. Lodi and J. Qureshi: Shear Behavior of Ferrocement Thin Webbed Sections.	. 969
A.K. Suryavanshi, J.D. Scantlebury and S.B. Lyon: Pore Size Distribution of OPC &	000
SRPC Mortars in Presence of Chlorides C. Arya and P.R.W. Vassie: Influence of Cathode-to-Anode Ratio and Separation Distance on	. 980
Galvanic Corrosion Currents of Steel in Concrete Containing Chlorides	. 989
J.M. Khatib and P.S. Mangat: Absorption Characteristics of Concrete as a Function of Location	. ,0,
Relative to Casting Position	. 999
O. Büyüköztürk and H.C. Rhim: Modeling of Electromagnetic Wave Scattering by Concrete	
Specimens	. 1011
N.B. Singh, K.N. Bhattacharjee and A.K. Shukla: Hydration of Portland Blended Cements .	. 1023
J. Davies: Study of Shear Fracture in Mortar Specimens	
J. Duchesne and E.J. Reardon: Measurement and Prediction of Portlandite Solubility in	. 1043
Alkali Solutions V. Calogovic: Gas Permeability Measurement of Porous Materials (Concrete) by Time-Variable	. 1043
Pressure Difference Method	. 1054
H.C. Gran: Fluorescent Liquid Replacement Technique. A Means of Crack Detection and	
Water:Binder Ratio Determination in High Strength Concretes	. 1063
B. Bissonnette and M. Pigeon: Tensile Creep at Early Ages of Ordinary, Silica Fume and Fiber	
Reinforced Concretes	. 1075

X. Zhang, X.Z. Ding, T.H. Lim, C.K. Ong, B.T.G. Tan and J. Yang: Microwave	
Study of Hydration of Slag Cement Blends in Early Period D.K. Dutta, D. Bordoloi and P.C. Borthakur: Hydration of Portland Cement Clinker in the	1086
Presence of Carbonaceous Materials	1095
M. Vargas Muñoz, F. González García, M. González Rodríguez, M.C. González	
Vilchez and S. Hudson: Influence of the Mineralogical Composition, Specific Surface Area	
and Strains - Crystallite Size of Alite on the Compressive Mechanical Strength of Portland Mortars.	
II. Clinkers of High Tricalcium Aluminate Contents	1103
DISCUSSIONS	
P. Gu, P. Xie and J.J. Beaudoin	1111
R. Francois, G. Arliguie and D. Bardy	1115
G. Goswami and P.K. Panigrahy	
G. Frigione and R. Sersale	1121
A.M. Brandt	1123
J.M. Torrenti, C. Boulay and C. Puch	1123
F. de Larrard and J. Marchand	1124
B.J. Addis and M.G. Alexander	1127
J. Bensted	
M.T. Blanco, S. García, S. Giménez, A. Palomo, F. Peurtas and T. Vázquez	
L. Tang and LO. Nilsson	1133
C. Andrade, C. Cervigón, A. Recuero and O. Río ·····	1138
NEWS ITEMS	1145
1995 Volume 25, Number 6	August
COMMUNICATED PAPERS	
V.A. Rossetti and F. Medici: Inertization of Toxic Metals in Cement Matrices: Effects on	
Hydration, Setting and Hardening	- 1147
R.K. Dhir, P.C. Hewlett and T.D. Dyer: Durability of 'Self-Cure' Concrete	
P.J. Tumidajski, G.W. Chan and K.E. Philipose: An Effective Diffusivity for Sulfate	
Transport into Concrete	1159
REFEREED PAPERS	
M.H. Zhang: Micostructure, Crack Propagation, and Mechanical Properties of Cement Pastes	
Containing High Volumes of Fly Ash	. 1165
M.L. Allan: Probability of Corrosion Induced Cracking in Reinforced Concrete	
M. Hasegawa, T. Kobayashi, G.K.D. Pushpalal: A New Class of High Strength, Water	,
and Heat Resistant Polymer-Cement Composite Solidified by an Essentially Anhydrous Phenol	
Resin Precursor	. 1191
A.S. El-Dieb amd R.D. Hooton: Water-Permeability Measurement of High Performance	
Concrete Using a High-Pressure Triaxial Cell	
E. Nägele: New and Powerful Method for the Evaluation of Multiparameter Corrosion Tests	1209
T. Nishikawa, M. Takatsu and M. Daimon: Fracture Behavior of Hardened Cement Paste	
Incorporating Mineral Additions	1218
G.J.Z. Xu, D.F. Watt and P.P. Hudec: Effectiveness of Mineral Admixtures in Reducing	
ASR Expansion	1225
X. Cong and R.J. Kirkpatrick: Effects of the Temperature and Relative Humidity on the Structure of C-S-H Gel	. 1227
F.D. Lydon and M. Iacovou: Some Factors Affecting the Dynamic Modulus of Elasticity of	1237
High Strength Concrete	1246
M.M. Ali, S.K. Agarwal, S. Agarwal and S.K. Handoo: Sintering Kinetics of BaAl ₂ O ₄ · · ·	
J.S. Chinchón, C. Ayora, A. Aguado and F. Guirado: Influence of Weathering of Iron	1237

 K.G. Babu and P.V.S. Prakash: Efficiency of Silica Fume in Concrete P.E. Streicher and M.G. Alexander: A Chloride Conduction Test for Concrete Y. Fu, J. Ding and J.J. Beaudoin: Expansion Characteristics of a Compounded 	l-Expansive	4
Additive and Pre-Hydrated High Alumina Cement Based Expansive Additive T. Sugama, N.R. Carciello, T.J. Nayberg and L.E. Brothers: Mullite Mid		5
Lightweight Calcium Phosphate Cement Slurries for Geothermal Wells: Setting ar J. Ding, Y. Fu and J.J. Beaudoin: Strätingite Formation in High Alumina Ce		5
Fume Systems: Significance of Sodium Ions	131	1
D. Ravina: Tensile Strength of Green Concrete with Fly Ash and Chemical Admixt		
C. Shi and R.L. Day: A Calorimetric Study of Early Hydration of Alkali-Slag C		3
S. Auer, HJ. Kuzel, H. Pöllmann and F. Sorrentino: Investigation on M		_
Treatment by Reactive Calcium Aluminates and Phases Formed		7
F. Aköz, F. Türker, S. Koral and N. Yüzer: Effects of Sodium Sulfate Conc. Sulfate Resistance of Mortars With and Without Silica Fume		0
M. Enders: Microanalytical Characterization (AEM) of Glassy Spheres and Anyhyd		U
Calcium Lignite Fly Ash from Germany		9
NEWS ITEMS	1379	9
1995 Volume 25, Number 7	Octobe	er
COMMUNICATED PAPERS		
A. Demirbas and S. Karslioglu: The Effect of Boric Acid Sludges Containing Borog	gypsum on	
Properties of Cement · · · · · · · · · · · · · · · · · · ·		81
I.B. Topçu and N.F. Günçan: Using Waste Concrete as Aggregate · · · · · · · · ·		85
X. Fu and D.D.L. Chung: Contact Electrical Resistivity Between Cement and Carbo Decrease with Increasing Bond Strength and Its Increase During Fiber Pull-Out	139	91
X. Fu and D.D.L. Chung: Linear Correlation of Bond Strength and Contact Electric		
Between Steel Rebar and Concrete		
R.S. Iyer and B.R. Stanmore: Surface Areas of Fly Ashes	140	J.5
REFEREED PAPERS		
K.A. MacDonald and D.O. Northwood: Experimental Measurements of Chloride Io		
Using a Two-Compartment Diffusion Cell: Effects of Material and Test Variable		
S. Long, Y. Wu and C. Liu: Investigation on the Formation of Ettringite in the Prese		17
D. Bonen and S.L. Sarkar: The Superplasticizer Adsorption Capacity of Cement Pa		22
Solution Composition, and Parameters Affecting Flow Loss R.A. Hanna, P.J. Barrie, C.R. Cheeseman, C.D. Hills, P.M. Buchler and R. Perry		23
²⁹ Si and ²⁷ Al NMR and FTIR Study of Cement Pastes Containing Industrial Wa		35
P.J. Wainwright and H. Ait-Aider: The Influence of Cement Source and Slag Addi		00
Bleeding of Concrete		45
C. Hua, P. Acker and A. Ehrlacher: Analyses and Models of the Autogenous Shrin	kage of Hardening	
Cement Paste		57
J. Payá, J. Monzó, M. V. Borrachero and E. Peris-Mora: Mechanical Treatment of Part I: Physico-Chemical Characterization of Ground Fly Ashes		69
Lj. Fisang, M. Djuric, R.M. Neducin, J. Ranogajec and A. Mihajlov: An Optimiz		
Quantity in Cement Blending		
M. Cheyrezy, V. Maret and L. Frouin: Microstructural Analysis of RPC (Reactive		
P. Richard and M. Cheyrezy: Composition of Reactive Powder Concretes		01
M. Shirkavand and R. Baggott: Effects of Superplasticizer on Workability and Flex		10
of Autoclaved Calcium Silicates M.R. Nilforoushan and J.H. Sharp: The Effect of Additions of Alkaline-Earth Met		12
the Setting Behavior of a Refractory Calcium Aluminate Cement		23
T. Zhang and O.E. Gjørv: Effect of Ionic Interaction in Migration Testing of Chlori		20
in Concrete		35

	uzzafar, A. Al-Musallam and A.S. Al-Gahtani: Factors Affecting Threshold	
Chloride for Reinfor	reement Corrosion in Concrete Chan, R.F. Feldman and G. Strathdee: A Boltzmann-Matano Analysis of	1543
Chloride Diffusion	Chan, R.F. Feldman and G. Strathdee: A Boltzmann-Malano Analysis of	1556
	J.M. Khatib: Factors Influencing Strength Development of Concrete	1330
	ıme	1567
	. Taylor: Microstructural and Microanalytical Studies of Sulfate Attack.	4=04
H.A. Toutanii and T. E	g Portland Cement: Reactions with Sodium and Magnesium Sulfate Solutions	1581
Cement Paste amd N	Mortar	1591
NEWS ITEMS		1603
1995	Volume 25, Number 8 De	cembe
EDITORIAL - Della M. R	doy	iii
COMMUNICATED PAPE	ERS	
P.J.M. Monteiro and C	C.T. Chang: The Elastic Moduli of Calcium Hydroxide	1605
S.A. Abo El-Enein, M.I	F. Kotkata, G.B. Hanna, M. Saad and M.M. Abd El Razek:	
	9	1615
F. Wagner, G. Schober	r and H. Mörtel: Measurement of the Gas Permeability of Autoclaved Conjunction with its Physical Properties	1621
	ard and H.P. Unsworth: XRF Thin Film Copper Disc Evaporation Test	1021
for the Elemental An	nalysis of Concrete Test Solutions	1627
	azawa: Experimental Study on Mechanism of Autogenous Shrinkage of	1622
Concrete		1033
REFEREED PAPERS		
C. Venkobachar, L. Iye	engar, U.K. Mishra and M.S. Chauhan: Release of U(VI) from Spent	1.00
	ized in Cement Concrete Blocks hi, X. Wu, A. Yoshino, H. Zhu, T. Wang and M. Tang: Preliminary	1639
	iNO ₂ on Expansion of Mortars Subjected to Alkali-Silica Reaction	1647
	rimentale de la Fatigue du Béton en Flexion 3 Points	
	and, V. Duhot, and M. Moranville-Regourd: Diffusion of Chloride Ions	
	Blended Cement Pastes and Mortars	
	E. Makovicky: Pozzolanic Reactions of Six Principal Clay Minerals:	10/9
Activation, Reactivit	ty Assessments and Technological Effects	1691
A.V. Saetta, B.A. Schr	efler and R.V. Vitaliani: 2-D Model for Carbonation and Moisture/Heat	
	erials	1703
	Malhotra: Characteristics of a Thermally Activated Alumino-Silicate and Its Use in Concrete	1713
V. Kasselouri, P. Tsak	iridis, Ch. Malami, B. Georgali and C. Alexandridou: A Study on the	
Hydration Products	of a Non-Expansive Sulfoaluminate Cement	1726
	Coarse Aggregate and Water/Cement Ratio on Intrinsic Permeability of	4505
Concrete Subject to	Drying	1737
and Cracking of Free	sh Mortarsh Mortar	1747
M.P. Luxán, F. Dorres	go and A. Laborde: Ancient Gypsum Mortars from St. Engracia (Zaragoza.	
	ation, Identification of Additives and Treatments	1755
	ygaard: Technical Calcium Nitrate as Set Accelerator for Cement at Low	1766

S. Jacobsen, H.C. Gran, E.J. Sellevold, J.A. Bakke: High Strength Concrete - Freeze/Thaw	
Testing and Cracking	1775
S. Jacobsen, J. Marchand and H. Hornain: SEM Observations of the Microstructure of Frost	
Deteriorated and Self-Healed Concretes	1781
S.L. Mak and K. Torii: Strength Development of High Strength Concretes with and without Silica	
Fume under the Influence of High Hydration Temperatures	1791
DISCUSSIONS	
R. Sersale, G. Frigione, R. Cioffi, B. de Vito and F. Zenone	1803
Ch. Malami, V. Kaloidas, G. Batis and N. Kouloumbi	1805
J. Bensted	1806
M. Motzet, H. Pöllmann and J. Neubauer	1808
J.S. Lota, P.L. Pratt and J. Bensted	1811
R.S. Gollop and H.F.W. Taylor	1814
M.C. Ball	
NEWS ITEMS	1817
INDEX TO VOLUME 25	1819
Key Word Index	1827
Author Index	1830

Key Word Index

Anisotropy, 863

	000 4400
	on, 999, 1423
Acetic A	•
Activation	on, 332, 417
Admixtu	re, 281, 387
Admixtu	re Type, 353
Aeration	, 1621
AFm, 27	1
Aggrega	te, 293, 1264, 1385
Aging, 9	19
	sification, 449
Alkali A	ctivated Cement, 561
Alkali B	ypass Dust, 883
Alkali-C	arbonate Reaction, 470
Alkaline	Earth Chlorides, 1523
Alkali R	elease, 841
Alkali-Si	ilica Reaction, 1647
Alkali-S	lag Cements, 1333
	pansion, 1225
	4·0.5H ₂ O, 945
27Al, 14	35
	Content, 1581
	ferrite, 863
	silicate, 1713
	ous Cement, 961
	ium Salt Solutions, 1209
	al Electronmicroscopy, 1369
	Mortars, 1755
Anhydrit	

Ashes, 1369 Autoclaving, 71, 91, 243, 249, 1512, Autogenous Shrinkage, 281, 288, 1457, 1633 Automated Imaging, 605 Backfill, 933 Backscattered Electron Imaging, 627 BaAl₂O₄, 1257 BaAl₂O₄ Formation, 86 BaO, 1417 Belite, 809 Belite Clusters, 835 Biosorbent, 1639 Bleeding, 1445 Blended Cements, 819, 1023 Bending, 1655 Boltzmann-Matano Method, 1556 Bonding, 491, 497 Bond Strength, 1397 Boric Acid Sludge, 1381 Borogypsum, 1381 By-Products, 113

CdO, 1679 Calcination, 1691

Calcined Phosphogypsum, 752 Ca3Al2O6, 721 Calcium Aluminate Cement, 91 Calcium Aluminates, 1347 Calcium Aluminoferrite, 581 Ca++ Ion Solubility, 1023 CaCl₂, 15 CaCl₂ Accelerator, 948 Calcium Magnesium Acetate, 617 Calcium Nitrate, 1766 Ca₃SiO₅, 721 CaO, 51 CaO-Al₂O₃-SiO₂-CaF₂-CaSO₄ System, 870 CaO-Al₂O₃-SiO₂-H₂O, 22 3CaO.Al₂O₃, 1679 3CaO.3Al₂O₃.CaSO₄, 572 CaO/SiO2 Ratio, 929 CaCO₃ Decomposition, 477, 955 CaF₂, 376 Ca(OH)2, 417, 1605 Ca(OH)₂ Solubility, 1043 Calorimetry, 1333 Capillary Rise, 999 C-S-H, 929 C-S-H Gel, 1237 Carbon, 1095 Carbonates, 339

Carbonation, 39, 1703 Carbon Fiber Reinforcement, 689 Carbon Fibers, 491, 1391 Casting-in-Situ, 1 Cathode/Anode Area Ratio, 989 Cellulose Fibers, 71 Cement, 71, 281, 311, 433, 440, 593, 1391, 1407 Cement Binder, 752 Cement Clinker, 79 Cement Composition, 853 Cement Hydration, 671, 1147 Cementitious Beams, 408 Cement Manufacture, 459 Cement Mortars, 503 Cement Setting, 948 Cement Source, 1445 Cement Type, 893 137Cs, 311 Characterization, 395 Chemical Activation, 15 Chemical Admixtures, 29, 1320 Chemical Shrinkage, 288 Chemistry, 9 Chevron-Notch, 345 Chloride, 257, 531, 819, 980, 989 Chloride Binding, 893, Chloride Diffusion, 197, 790, 1407, 1535, 1556, 1667 Chloride Ion Permeability, 1284 Chloride Migration, 299 Chloride Penetration, 695 Chloride Permeability, 803 Chloride Reaction, 581 Chromium, 433 Clay Minerals, 1691 Clinker, 157, 339, 835, 1103, 1095, 1103 Coagulation, 779 Coal Combustion By-Products, 658 Coarse Aggregate, 177, 1737 Cohesion, 779 60Co, 311, 314 Composite Mechanism, 127 Composites, 71, 939 Composition, 1501 Compounded Expansive Additive,

1295

Concentration, 57

Compression Damage Zone, 702

Concrete, 387, 465, 497, 759, 841,

939, 1011, 1567, 1610

Concrete Solution Extract, 1627

Concrete Surface Treatment, 197 Conduction Calorimetry, 426

Concrete Durability, 187, 929

Compressive Strength, 240

Conductivity, 1086, 1469 Conductivity Cell, 1284 Contact Electrical Resistivity, 1391, Corrosion, 376 Corrosion Currents, 989 Corrosion Induced Cracking, 1179 Corrosion Rate, 257 Corrosion Tests, 1209 Crack Detection, 1063 Crack Identification, 605 Cracking, 1747, 1775 Crack Propagation, 1165 Cracks, 1621 Creep, 1075 Critical Threshold Stress, 408 Crystal Size, 1103, 1103 Crystal Structure, 945 Curing Conditions, 903 Curing Temperature, 485 Curing Time, 311 Crystal Size, 721

Data, 276
Dead-Burning, 51
Decanted Solution, 531
Deicing Salt, 617
Delayed Ettringite, 903
Delayed Formation, 63
Desiccation, 1246
Diffusion, 86, 819, 1257
Diffusivity, 299, 1284, 1159
Durability, 511, 1153, 1264
Dynamic Modulus, 1246

Early Hydration, 426 Early Strength, 449 Efficiency, 1273 Elastic Modulus, 165, 276, 1605 Electric Field, 695 Electrical Conductivity, 1615 Electrochemical Chloride Extraction, 727 Electromagnetic Wave Scattering, 1011 Electron Probe Microanalysis, 863 Elevated Temperature Curing, 627 Endod, 553 Ettringite, 29, 63, 658, 1264, 1347, 1417 Evaporation Test, 1627 Expansion, 29, 440, 470, 617, 853 Expansion Mechanism, 51 Expansive Admixture, 29

Fatigue Tests, 1655 Ferrocement, 969 Fiber Reinforcement, 1075 Fick's Law, 299 Filtration, 933 Fineness, 9 Finite Element Analysis, 1031 Flash-Calcining, 102 Fluorescent Liquid, 1063 Flow, 1403 Fluxing, 339 Fly Ash, 15, 417, 449, 1469 Fly Ash-Cement Blends, 1490 Fly Ash Class F, 1320 Fly Ash Slurries, 1403 Fractal-Types, 147 Fracture, 1218 Fracture Energy, 497 Fracture Properties, 543 Free Lime, 440 Freezing, 1775 Fresh Concrete, 1320 Fresh Paste, 353 Fresh State, 1747 Friedel's Salt, 581 Frost Deterioration, 1781 Frost Resistance, 809 FTIR, 1435

Gas Permeability, 1054, 1621 Geothermal Cements, 1305 Glass, 1225 Glassy Spheres, 1369 Glycol, 1153 Granulated Slag, 332 Grinding, 1469 Growth Pressure, 51 Gypsum, 332, 417, 1755 Gypsum-Free Pastes, 685

Hardened Cement Pastes, 1218 Heat-Cured Pastes, 853 Heat Flow, 426, 1703 Heat of Hydration, 647 High Alumina Cement, 1295, 1311 High-Ca₃Al₂O₆, 1103, 1103 High Fly Ash, 759 High Performance Concrete, 177, 209, 1199 High Strength Concrete, 543, 709, 715, 1246, 1633, 1775, 1791 High Temperature, 1791 High Volume Fly Ash Concrete, Humidity, 485, 1237 Hydration, 63, 288, 319, 522, 581, 779, 883, 1023, 1086, 1095, 1333, 1679, 1791

Exposure, 197

Hydration Model, 593 Hydration Products, 561 Hydrogarnets, 22 Hydrothermal Cement, 240

Image Analysis, 827 Inert Fillers, 1225 Intrinsic Permeability, 1737 Ion-Exchange Resin, 314 Ionic Interaction, 1535

Joints, 689

Kaolinite, 102 Kinetics, 63, 86, 572

Latex, 465, 503 Leaching, 311, 314, 1639 Light Absorption, 863 Lightweight Aggregate, 276 Lightweight Slurries, 1305 Lignite Ash, 1610 Lime, 265 Lime Content, 809 Lime Mortars, 39 Limestone Filler, 1667 Limitations, 299 Li Nitrite, 1647 Localization, 702 Long-Term Behavour, 113 Low Sulfate, 271 Low Temperature, 1766 Low W/C Ratio, 365

Macroscopic, 1457 MgO, 51 Magnetic Shielding, 939 Marine Structures, 187 Mass Increase, 617 Mathematical Modeling, 727 Mechanical Properties, 249, 1385 Mechanical Stability, 961 Mechanism, 440, 779, 1633 Mercury Porosimetry, 741 Metakaolin, 265 Methyl Cellulose, 465 Microstructure, 319, 485, 715, 1165, 1491, 1581, 1781 Microstructure Development, 522 Microwave, 1086 Microwave Cured Concrete, 136 Microwave Curing, 265 Mineral Additions, 1218 Mineral Admixtures, 709, 715, 1225 Mineral Composition, 1103, 1103 Mineralizers, 79, 376 Mineral Stability, 1264

Mix Proportioning, 1273
Model, 276, 319, 948, 1703
Modeling, 741, 1605
Model Prediction, 9
Modulus, 177
Moisture Transport, 1703
Mortar, 376, 449, 689, 790, 809, 1360, 1747
Mortar Expansions, 903, 1647
Mullite Microspheres, 1305

Natural Pozzolan, 647 Neutron Diffraction, 639 New Concrete, 491 Non-Expansive Properties, 1726

Old Concrete, 491 Optimization, 1490, 1610 Organic Acids, 955 Oxygen, 819

Particle Size, 243, 149 Paste, 147, 157, 231, 605, 919 Paste-Rock Interface, 345 Penetration, 257 Permeability, 769 pH, 1469 Phase Equilibria, 870 Phenol Resin Precursor, 1191 Phosphates, 1305 Pitting, 257 Plasticizers, 685 Polymer Additive, 497 Polymer-Cement Composite, 1191 Polymer Modified Cement, 127 Polymer Morphology, 271 Polypropylene Fiber Reinforcement, 511 Polypropylene Fibers, 293 Pond Ash, 459 Ponding, 395 Pore Size Distribution, 695, 769, 980 Pore Solution, 1423 Pore Solution Expression, 531 Pore Structures, 417, 790 Porosity, 365, 819 Portland Pozzolana Cements, 553 KOH. 1043 Pozzolan, 1713 Pozzolanic Activity, 265, Pozzolanic Materials, 961 Pozzolanicity, 102, 395

Quartz Grains, 835

Rapid Test, 924

Raw Material, 459

Reactive Powder Concrete, 1491, 1501

Reactivity, 1691

Rebar, 1397

Reduced Rate, 1667

Refractory Cement, 1523

Reinforcement Corrosion, 893, 1543

Repetition, 803

Retardation, 553

Quartz, 243, 249

Retrogression, 240 Rheology, 39

Rubberized Concrete, 304 SEM, 627 Scatter, 1655 Scrap Polymer Pyrolysis, 1497 Self-Cure Concrete, 1153 Self-Desiccation, 157, 1457 Self-Healing, 1781 Sepiolite, 39 Set Accelerator, 1766 Setting, 1147, 1523 Shaft Kiln, 459 Shallow Immersion, 999 Shear Behavior, 969 Shear Fracture, 1031 Shear Stress, 933 Shotcrete, 293 Shrinkage, 1075, 1747 29Si, 1435 Silica Fume, 365, 395, 543, 1311, 1273, 1360, 1567, 1591, 1615 Silicoferrochromium Fume, 387 Simulation, 319, 522 Sintering, 79 Sintering Kinetics, 1257 Size Effect, 408 Slag Cement, 593, 883 Slag Cement Blends, 1086 Slag Pastes, 561 Slag Replacement, 1445 Small-Angle X-ray Scattering, 147 Soak-Calcinating, 102 NaOH, 1043

Sodium Ions, 1311

Sodium Phosphate, 91

Sodium Sulfate, 1360

Na₂SO₄, 15

Softening, 702

Sodium Lignosulfonate, 671

Solid Phase Reaction, 1417

Solidification, 658, 671

Precasting, 1

Properties, 353

Pre-Hydration, 1295

Solid State NRM, 1435 Solid Wastes Ash, 1347 Solution Convection, 1159 Solutions, 1043 Spain, 1755 Specific Gravity, 1469 Stabilization, 658, 671 Static Loading, 803 Steel, 257, 376, 939 Strain, 304 Strain Effect, 231 Stratlingite, 1311 Strength, 9, 127, 177, 511, 752, 939, 1381, 1512, 1591 Strength Development, 1567 Strength Loss, 1, 57 Strength-Time Analysis, 1209

Structure, 1237, 1615

Sub-Distribution, 769

Sulfate Exposure, 57

Sulfate Ingress, 924

Sulfoaluminate, 113

Sulfates, 339 Sulfate Transport, 1159

Sulfate Attack, 1, 1581

Sulfate Resistance, 759

Sulfate-Resistant Mortars, 980

Sulfoaluminate Cement, 1726 Sulfosilicate, 113 Superplasticizer, 365, 1423, 1512, Supplementary Cementitious Materials, 209

Surface Area, 919, 1403 Synchrotron, 639

Tartaric Acid, 477 Temperature, 63, 1237 Tensile Strength, 1320 Tension, 1075 Thawing, 1775 Thermal Activation, 1713 Thermal Decomposition, 572 Thermal Effects, 1679 Thermal Properties, 465 Thermodynamic Analysis, 157 Thermodynamic Calculations, 22 Thin Sections, 827 Time of Addition, 353 Time-Variable Pressure, 1054 Threshold Chloride, 1543 Tobermorite, 243

Transition Zone, 165 Transition Zone Porosity, 741 Transverse Loads, 969 Triaxial Cell, 1199

Uranium Release, 1639

V2O5, 721 Very High Early Strength, 136 Volcanic Rock Aggregates, 841

Waste Concrete, 1385 Wastes, 1435 W/C, 281, 1737 Water/Cement Ratio, 165, 827 Water Content, 1063 Water Glass, 71 Water Permeability, 790, 1199 Waterproofing, 503 Water Retention, 933 Water Solubility, 433 Weathering Products, 1264 Weibull Statistics, 1179 Workability, 647, 709, 1512

XRD, 470, 639

Zn, 79

Author Index

Toxic Metals Fixation, 1147

Aarre, T., 827 Abou-Zeid, M.N., 605 Acker, P., 1457 Addis, B.J., 1127 Afridi, M.U.K., 271 Agarwal, S., 86, 1257 Agarwal, S.K., 86, 1257 Aguado, A., 1264 Ahmad, S., 165 Ahmad, S.F., 969 Ait-Aider, H., 1445 Aköz, T., 1360 Alamán, A., 727 Alexander, M.G., 345, 1127, 1284 Alexandridou, C., 1726 Al-Gahtani, A.S., 1543 Ali, M.M., 86, 1257 Allan, M.L., 511, 1179 Al-Musallam, A., 1543 Alonso, C., 257, 727 Ambroise, J., 933 Amoura, A., 933 Andrade, C., 257, 727, 1138

Arceo, H.B., 339 Arliguie, G., 1115 Arya, C., 893, 989 Audley, G.J., 426 Auer, A., 1347 Aukett, P.N., 426 Av. A., 387 Ayas, A., 1610 Ayora, C., 1264

Toughness, 304

Babu, 1273 Baggott, R., 1512 Bakke, J.A., 1775 Bakula, F., 71 Ball, M.C., 1815 Bardy, A., 1115 Barnes, P., 639 Barr, B.I.G., 177, 543 Barrie, P.J., 1435 Batis, G., 1805 Beaudoin, J.J., 29, 63, 223, 1111, 1295, 1311

Bensted, J., 221, 240, 426, 1129, 1806, 1811 Bentz, D.P., 790 Beretka, J., 113 Bhattacharjee, K.N., 459, 883, 1023 Bian, Q., 1647 Bissonnette, B., 1075 Bjegovic, D., 187 Blanco-Varela, M.T., 39, 1131 Bland, C.H., 485 Bojadjieva, C., 685 Bonen, D., 395, 1423 Bordoloi, D., 1095 Borrachero, M.V., 449, 1469 Borthakur, P.C., 1095 Boulay, C., 1123 Bourdette, B., 741 Brandt, A.M., 1123 Brothers, L.E., 1305 Brown, P.W., 417 Buchler, P.M., 1435 Bukowski, J.M., 147 Büyüköztürk, O., 1011

Calogovic, V., 1054 Carciello, N.R., 91, 1305 Cao, Y., 627 Cervigón, C., 1138 Chan, G.W., 1159, 1556 Chang, C.T., 1605 Chatterji, S., 51, 299, 929 Chaudhary, Z.U., 271 Chauhan, M.S., 1639 Cheeseman, C.R., 1435 Chen, L., 1417 Chen, P., 465, 491 Chen, Y., 853, 919 Cheyrezy, M., 1491, 1501 Chinchón, J.S., 1264 Chung, D.D.L., 465, 491, 689, 939, 1391, 1397 Cioffi, R., 1803 Clark, S.M., 639 Cocke, D.L., 671 Collepardi, M., 961 Cong, X., 1237 Cotterell, B., 408

Daimon, M., 1218 Damidot, D., 22 Darwin, D., 605 J. Davies, 1031 Day, R.L., 15, 1333 Demirbas, A., 1381, 1610 Demura, K., 271 Deng, M., 440 De Schutter, G., 593 Detwiler, R.J., 627, 790 Dhir, R.K., 197, 1153, 1627 Diez, J.M., 727 Dimopoulos, G., 477, 955 Ding, J., 1295, 1311 Ding, X.Z., 1086 Djuric, M., 1490 Dorrego, F., 1755 Drljaca, J., 311 Duchesne, J., 1043 Duhot, V., 1667 Durekovic, A., 365 Dutta, D.K., 1095 Dyer, T.D., 1153

Ehrlacher, A., 1457 El-Dieb, A.S., 1199 El-Enein, S.A.A., 1615 El-Korchi, T., 1591 Elsen, J., 827 Enders, M., 1369 Escudero, M.L., 376 Eylands, K.E., 658 Feldman, R.F., 1556 Feliu, S., 257 Fisand, Lj., 1490 Francois, R., 1115 Frías, M., 433 Frigione, G., 1121, 1803 Frouin, L., 1491 Fúkos, Ch., 721 Fu, X., 491, 689, 1391, 1397 Fu, Y., 29, 63, 223, 1295, 1311 Fuhr, C., 809 Fukuda, L., 835, 863

Garboczi, E.J., 790 García, F. González, 1103 Garcia, S., 1131 Garg, M., 332, 752 Georgali, B., 1726 Gill, J.P., 197 Giménez, S., 1131 Gjørv, O.E., 276, 1535 Glasser, F.P., 22, 339 Glavchev, I., 685 Glodic, S., 311, 314 Goguel, R., 853 Gollop, R.S., 1581, 1814 González, J.A., 257 Goswami, G., 1117 Gran, H.C., 1063, 1775 Gross, W., 209 Gu, P., 29, 63, 223, 1111 Guirado, F., 1264 Günçan, N.F., 1385

Halamickova, P., 790 Haldeou, 948 Hand, R.J., 225 Handoo, S.K., 86, 1257 Hanehara, S., 353 Hanna, R.A., 1435, 1615 Haque, M.N., 531 Harmuth, H., 497 Hasegawa, M., 1191 Hassett, DJ., 658 He, C., 1691 Hess, T.R., 671 Hewlett, P.C., 1153 Hillerborg, A., 702 Hills, C.D., 1435 Hong, D., 440 Hooton, R.D., 1199 Hornain, H., 1667, 1781 Hua, C., 1457 Hubbard, F.H., 1627 Hudec, P.P., 1225 Hudson, S., 1103 Hussain, S.E., 1543

Iacovou, M., 1246 Imura, T., 835 Inozemtsev, U.P., 231 Iqbal, M.A., 271 Ishida, H., 243, 249 Ishimori, H., 803 Isu, N., 243, 249 Ito, S., 835, 863 Iyengar, L., 1639 Iyer, R.S., 1403

Jacobsen, S., 1775, 1781 Jensen, O.M., 157 Jiang, S.P., 779 Jones, M.R., 197 Justnes, H., 1766

Kakali, G., 79, 948 Kaloidas, V., 1805 Kamaswara Rao, C.V.S., 1, 57 Karslioglu, S., 1381, 1610 Kasai, T., 288 Kasselouri, V., 477, 721, 955, 1726 Kaucic, V., 71 Kawamura, M., 759 Kayyali, O.A., 531 Ketcham, K.W., 605 Khatib, J.M., 999, 1567 Khatri, R.P., 209 Khayat, K.H., 395 Kirkpatrick, R.J., 1237 Knöfel, D., 809 Kobayashi, T., 1191 Komarneni, S., 417 Koral, S., 1360 Kostadinovic, A., 311, 314 Kotkata, M.F., 1615 Kouloumbi, N., 1805 Kronlöf, A., 1747 Krstic, V., 187 Kukacka, L.E., 511 Kumar, S., 1, 57 Kuzel, H.-J., 1347

Laborde, A., 1755 Lam, K.Y., 408 Lamontagne, A., 293 Lan, X., 440 Larrard, F. de, 1124 Lawrence, C.D., 903 Leivo, M., 1747 Lens, N., 827 Leung, C.K.Y., 136 Lim, T.H., 1086 Liu, C., 417 Lodi, S.H., 969 Long, S., 1417 Lota, J.S., 1811 Luxán, M.P., 1755 Lydon, F.D., 177, 543, 1246, 1737 Lyon, S.B., 581, 980

Ma, W., 417 MacDonald, K.A., 1407 Macías, A., 376 Mai, Y.-W., 408 Mak, S.L., 1791 Maki, I., 835, 863 Makovicky, E., 1691 Malami, Ch., 1726, 1805 Malhotra, V.M., 1713 Mangat, P.S., 999 Marchand, J., 1124, 1667, 1781 Maret, V., 1491 Markeset, G., 702 Martínez-Ramírez. S., 39 Matsunaga, Y., 709, 715 McCarthy, G.J., 658 Medici, F., 1147 Mihajlov, A., 1490 Mikulic, D., 187 Mindess, S., 345 Mishra, U.K., 1639 Mitsuda, T., 243, 249 Mitsumatsu, M., 863 Miyazawa, S., 281, 288, 1633 Molina, S.G., 572, 870 Mollah, M.T.A., 671 Monosi, S., 961 Monteiro, P.J.M., 276, 1605 Monzó, J., 449, 1469 Mörtel, H., 1621 Moranville-Regourd, M., 1667 Motzet, M., 1808 Müller, A., 809 Muñoz, M. Vargas, 1103 Mutin, J.C., 779

Nägele, E., 1209 Nayberg, T.M., 1305 Neducin, R.M., 1490 Neubauer, J., 1808 Ngala, V.T., 819 Nilforoushan, M.R., 1523 Nilsen, A.U., 276 Nilsson, L.-O., 695, 1133 Nishibayhashi, S., 1647 Nishikawa, T., 1218 Nonat, A., 779 Northwood, D.O., 1407 Nygaard, E.C., 1766

Oba, E., 863 Odler, I., 853, 919 Ohama, Y., 271 Ollivier, J.P., 741 Ong, C.K., 1086 Oriol, M., 265 Osbæck, B., 1691 Ostrowski, C., 945

Page, C.L., 819 Palomo, A., 1131 Palta, P., 671 Panigrahy, P.K., 1117 Parissakis, G., 9, 79, 477, 948, 955 Parrott, L.J., 819 Patel, H.H., 485 Payá, J., 449, 1469 Pera, J., 265, 933 Peric, A., 311, 314 Peris-Mora, E., 449, 1469 Perry, R., 1435 Peterson, O., 617 Peurtas, F., 1131 Pheeraphan, T., 136 Philipose, K.E., 1159 Piccioli, P., 961 Pigeon, M., 293, 1075 Pinillos, C., 449 Plecas, I., 311, 314 Pöllmann, H., 1347, 1808 Poole, A.B., 485 Prakash, P.V.S., 1273 Pratt, P.L., 1811 Puch, C., 1123 Puertas, F., 39, 572 Pushpalal, G.K.D., 1191

Quenard, D., 827 Qureshi, J., 969

Ranogajec, A., 1490 Rasheeduzzafar, 1543 Ravina, D., 1320 Razek, M.M.A. El, 1615 Reardon, E.J., 1043 Recuero, A., 1138 Redjel, B., 1655 Retta, N., 553 Rhim, H.C., 1011 Richard, P., 1501 Ridge, M.J., 224 Ringot, E., 741 Río, O., 1138 Rodríguez, M. González, 1103 Rossetti, V.A., 1147 Rostásy, F.S., 255

Saad, M., 1615 Sabir, B.B., 1567 Saetta. A.V., 1703 Saija, L.M., 503 Saito, M., 803 Sakai, E., 127, 709, 715 Salvador, S., 102 Sanchez-Rojás, M.I., 433 Santoro, L., 113 Sarkar, S.L., 1423 Sawaki, D., 353 Scantlebury, J.D., 581, 980 Schmidt-Döhl, F., 255 Schober, G., 1621 Schrefler, B.A., 1703 Scrivener, K.L., 561 Sellevold, E.J., 1775 Sersale, R., 1121, 1803 Shannag, M.J., 647 Sharp, J.H., 1523 Sherman, N., 113 Shi, C., 15, 1333 Shi, Z-Q., 939 Shirkavand, M., 1512 Shukla, A.K., 459, 883, 1023 Simeonov, P., 165 Singh, M., 332, 752 Singh, N.B., 459, 883, 1023 Sipari, P., 1747 Sirivivatnanon, V., 209 Smolej, V., 827 Solem-Tishmack, J.K., 658 Sorrentino, F., 1347 Stanmore, B.R., 1403 Strathdee, G., 1556 Streicher, P.E., 1284 Sugama, T., 91, 1305 Sugita, J., 127 Suryavanshi, A.K., 581, 980

Taerwe, O., 593 Takatsu, M., 1218 Tan, B.T.G., 1086 Tang, D., 695 Tang, L., 1133 Tang, M., 440, 470, 1647 Taniguchi, K., 759 Taylor, H.F.W., 1581, 1814 Tazawa, E., 281, 288, 1633 Teramura, S., 249 Tercero, R., 449 Thompson, J.S., 658 Thomson, M.L., 1679 Tong, L., 470 Topcu, I.B., 304, 387, 1385 Torii, J., 759, 1791 Torrenti, J.M., 1123 Toutanji, H.A., 1591 Tsakiridis, P., 1726

Tsivilis, S., 9, 948 Tumidajski, 924, 1159, 1556, 1679 Turc, 924 Türker, F., 1360

Uchikawa, H., 353 Ukrainczyk, V., 187 Unsworth, H.P., 1627

Valenti, G.L., 113
Van Breugel, K., 319, 522
Varela, M.T.B., 572, 870
Vassie, P.R.W., 989
Vázquez, T., 1131
Vempati, R.K., 671
Venkobachar, C., 1639
Vílchez, M.C. González, 1103
Vitaliani, R.V., 1703

Vito, B. de, 1803

Wägner, F., 1621 Wainwright, P.J., 1445 Wang, S.D., 561 Wang, T., 1647 Watanabe, Y., 709, 715

Watt, D.F., 1225 Wee, T.H., 709, 715 Wild, S., 1567 Winslow, D., 147, 769 Wu, X., 1647 Wu, Y., 1417

Xie, P., 29, 63, 223, 1111 Xu, G.J.Z., 1225 Xu, Y., 893 Yang, J., 1086 Yeginobali, A., 647 Yoshida, H., 835, 863 Yoshino, A., 1647 Young, J.F., 147 Yu, S.W., 819 Yüzer, N., 1360

Zenone, F., 1803 Zhang, M.H., 1165, 1713 Zhang, T., 1535 Zhang, X., 1086 Zheng, L., 769 Zhou, F.P., 177, 543 Zhu, H., 1647